

Muhammad Riaz
Resident Engineer, ACES -Site Office - RGC, DHA, Multan

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: ACES/DHAM-RGC-M&F-003

Dated: 01-07-2021

SOM Lab Ref: CED/SOM/4633 (Page-1/1)

Dated: 08-07-2021

Test: Tension Test Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(AF Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.900	25	25.16	491	497	208.50	295.70	425	420	602	595	30.0	200	15.0	
2	3.884	25	25.10	491	495	209.00	299.00	426	423	609	605	32.5	200	16.3	
3	2.230	20	19.02	314	284	122.00	173.70	388	430	553	612	37.5	200	18.8	
4	2.251	20	19.11	314	287	128.00	182.20	407	447	580	636	35.0	200	17.5	
5	1.629	16	16.26	201	208	165.00	183.70	821	796	914	886	25.0	200	12.5	
6	1.603	16	16.13	201	204	97.50	143.00	485	478	711	701	32.5	200	16.3	
7	0.962	12	12.49	113	122	67.20	88.00	594	549	778	719	25.0	200	12.5	
8	0.948	12	12.40	113	121	69.50	93.70	615	576	828	776	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

M. Shahbaz Iqbal
BPS (Pvt) Ltd. Alpha Homes (Apartments) Project

Test Performed By: Dr. /Engr. S. AsadAli Gillani

Client Reference: Nil

SOM Lab

Ref: 4627(Page-1/1)

Dated: 08-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.533	8	0.973	0.79	0.744	22.48	30.58	62750	66630	85380	90650	1.40	8.0	17.5	
2	2.515	8	0.970	0.79	0.739	21.66	31.50	60480	64650	87940	94000	1.30	8.0	16.3	
3	2.521	8	0.971	0.79	0.741	23.96	32.59	66880	71300	90980	97000	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: ST/UET/ 20210708-65

SOM Lab

Ref: 4628(Page-1/1)

Dated: 08-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.664	8	0.998	0.79	0.783	26.32	33.86	73480	74140	94540	95380	1.50	8.0	18.8	
2	2.621	8	0.990	0.79	0.770	25.86	33.71	72200	74080	94110	96560	1.60	8.0	20.0	
3	2.644	8	0.995	0.79	0.777	25.91	33.76	72340	73550	94250	95830	1.60	8.0	20.0	
4	0.663	4	0.498	0.20	0.195	6.60	8.89	72730	74600	98020	100530	0.90	8.0	11.3	
5	0.670	4	0.501	0.20	0.197	6.75	9.19	74420	75550	101390	102940	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	6.49	8.97	71610	73440	98920	101460	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: ST/UET/ 20210708-34

SOM Lab

Ref: 4629(Page-1/1)

Dated: 08-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.651	8	0.996	0.79	0.779	27.29	36.34	76180	77260	101450	102890	1.40	8.0	17.5	
2	2.633	8	0.993	0.79	0.774	27.14	36.14	75760	77320	100880	102970	1.30	8.0	16.3	
3	2.640	8	0.994	0.79	0.776	27.34	36.31	76330	77700	101370	103200	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

New Shalimar Steel Mill
Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 07-07-2021

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 4630(Page-1/1)

Dated: 08-07-2021

Test Specification:

ASTM-A-615

Sample Type:

Plain Steel Bar(Mark-2)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.067	5	0.632	0.31	0.314	6.80	9.81	48380	47760	69770	68880	2.10	8.0	26.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. M. Sarwar Sabir
Resident Engineer, AZE Associates, GCWU-Sialkot

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: RE/AZEA/GCWUS/SKT/381

Dated: 03-07-2021

SOM Lab

Ref: 4631 (Page-1/1)

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.702	8	1.005	0.79	0.794	24.13	35.07	67360	67020	97900	97400	1.50	8.0	18.8	
2	2.694	8	1.004	0.79	0.792	25.89	35.70	72290	72100	99660	99410	1.40	8.0	17.5	
3	1.498	6	0.748	0.44	0.440	13.10	19.13	65660	65660	95910	95910	1.20	8.0	15.0	
4	1.502	6	0.749	0.44	0.441	13.12	19.18	65760	65610	96160	95940	1.30	8.0	16.3	
5	0.609	4	0.477	0.20	0.179	5.32	7.49	58680	65560	82620	92310	1.50	8.0	18.8	
6	0.608	4	0.477	0.20	0.179	5.05	7.51	55650	62170	82850	92570	1.60	8.0	20.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Material Engineer

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Abdullah Khan Architects CIMS, Site Office, DHAB, Bahawalpur

Client Reference: CRE/KB/01/CIMS/SITE/Lab/12

SOM Lab 4632(Page-

Ref: 1/2)

Dated: 05-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar (Agha Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.528	8	0.973	0.79	0.743	22.34	30.89	62380	66330	86230	91680	1.20	8.0	15.0	
2	2.504	8	0.968	0.79	0.736	21.63	30.33	60390	64820	84660	90880	1.40	8.0	17.5	
3	1.621	6	0.778	0.44	0.476	16.06	20.76	80480	74390	104080	96210	1.20	8.0	15.0	
4	1.643	6	0.784	0.44	0.483	16.33	20.80	81860	74570	104230	94960	1.10	8.0	13.8	
5	0.595	4	0.472	0.20	0.175	5.78	7.65	63740	72840	84310	96350	1.10	8.0	13.8	
6	0.596	4	0.472	0.20	0.175	5.38	7.31	59350	67830	80600	92110	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Material Engineer

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Abdullah Khan Architects CIMS, Site Office, DHAB, Bahawalpur

Client Reference: CRE/KB/01/CIMS/SITE/Lab/13

SOM Lab 4632(Page-

Ref: 2/2)

Dated: 05-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar (Moiz Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.491	6	0.747	0.44	0.438	13.53	19.27	67810	68110	96570	97010	1.50	8.0	18.8	
2	1.482	6	0.745	0.44	0.436	12.95	18.91	64890	65490	94780	95650	1.60	8.0	20.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Co. Inc. Lahore

Client Reference: MIG/2021/632

SOM Lab Ref: 4634(Page-1/1)

Dated: 08-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Amreli Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.553	8	0.977	0.79	0.750	25.38	35.75	70860	74640	99800	105130	1.50	8.0	18.8	
2	2.544	8	0.976	0.79	0.748	25.43	36.03	71000	74990	100600	106250	1.40	8.0	17.5	
3	1.499	6	0.749	0.44	0.441	15.92	19.57	79810	79630	98100	97880	1.20	8.0	15.0	
4	1.507	6	0.751	0.44	0.443	16.00	19.54	80220	79680	97950	97290	1.40	8.0	17.5	
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Witnessed By: Sohaib Ali, Sub-Engr, Nespak & M. Adil, Asstt. Manager (Transmission Lines) AHTE, SA-RA Repiesantanive

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

New Shalimar Steel Mill
Lahore

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: Nil

SOM Lab

Ref: 4635(Page-1/1)

Dated: 07-07-2021

Dated: 08-07-2021

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Plain Steel Bar(Mark-1)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.076	5	0.634	0.31	0.316	6.70	9.96	47650	46750	70860	69510	2.30	8.0	28.8	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Rafae Bin Khalid(Executive Director)

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Tekton Engg Pvt. Ltd. (Project: Residential Unit at 84-A, Model Town), Consultant: NADA

SOM Lab

Client Reference: nil

Ref: 4636(Page-1/1)

Dated: 08-07-2021

Dated: 08-07-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.581	8	0.982	0.79	0.758	26.68	32.23	74480	77620	89990	93780	1.30	8.0	16.3	
2	2.584	8	0.983	0.79	0.759	26.45	31.98	73850	76870	89270	92920	1.50	8.0	18.8	
3	1.489	6	0.747	0.44	0.438	14.29	17.94	71640	71960	89930	90340	1.10	8.0	13.8	
4	1.491	6	0.747	0.44	0.438	14.29	18.57	71640	71960	93100	93520	1.20	8.0	15.0	
5	0.597	4	0.472	0.20	0.175	5.81	7.49	64080	73230	82620	94420	1.20	8.0	15.0	
6	0.596	4	0.472	0.20	0.175	5.81	7.36	64080	73230	81160	92750	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk